



Split Phase Hybrid Inverter

120/240V Split Phase
120/208V 2/3 Phase
240V Single Phase



SPZ HI-7.5KW-LV | 5kW AC | 7.5kW PV

SPZ HI-15KW-LV | 10kW AC | 15kW PV

Spitzer Energy Hybrid Inverters (Split-Phase)

Spitzer Energy's Hybrid Inverter works with solar, batteries, the grid, and external generators. We support grid-tied solar, battery supported utility rate reduction, and emergency back-up options including on-grid and off-grid solutions.

Key Features

Friendly & Flexible

- Automatic self-consumption (solar, battery, grid)
- Time-of-use for utility rate reduction
- Grid tied (with or without battery)
- Emergency back-up (automatic transfer in case of power failure)
- Off grid capability
- Closed-loop battery management system
- Easy to set-up (includes monitoring App)

Powerful & Expandable

- 4 MPPT trackers
- Connects up to 3 inverters in parallel (24-30kW AC)
- Connect up to 40kWh of LifePo4 batteries
- 190-210 Amp pass-through (charge/discharge)

Safe & Reliable

- Standard Warranty (10 yrs) Extended (20 yrs)
- Passed UL1699B, IEEE1547, CPUC Rule21, SRD V2.0, UL1741 SA, UL1741 SB, CEC, 9540A



Technical Specifications

Spitzer Energy Hybrid Inverters (Split-Phase)

Technical specification	SPZ HI-7.5KW-LV	SPZ HI-15KW-LV
AC output		
Rated output power (kVA)	5	10
Max. apparent Power (kVA)	5.5	11
Max. output current (A)	20.8	41.7
AC output voltage (V)	(110-120)/(220-240) split phase, (240V) single phase	
Frequency (Hz)	60 (55 to 65)	
Max. AC current output to grid (A)	22.9	45.8
Max. grid passthrough current (A)	100	
THDi	<3%	
Input (PV)		
Max. power (kW)	7.5	15
Max. DC voltage (V)	500	
MPPT voltage range (V)	120~500	
Max. Input current of single MPPT (A)	14	
Max. short circuit current (A)	22	
MPPT tracker/strings	4	
Battery		
Battery voltage range (V)	40~60	
Max. charging voltage (V)	48	
Max. charge/discharge current (A)	120/120	190/210
Battery type	Lithium /Lead-acid	
Charging strategy for Li-on battery	Self-adaption to BMS	
EPS output		
Rated power (kVA)	5	10
Max apparent power (kVA)	5.5	11
Nominal output voltage L-N/L1-L2 (V)	120/240	
Rated frequency (Hz)	60	
Automatic switching time (ms)	<20	
THDu	<2%	
Output power factor	0.8 leading ~ 0.8 lagging	
General data		
MPPT efficiency	99.9%	
Europe efficiency (PV)	96.5%	
PV to grid efficiency (PV)	97.2%	
Battery to load efficiency	95.2%	
PV to battery charging efficiency	96.1%	
Grid to battery charging efficiency	95.0%	
Output conduit (mm)	25.4	
PV input conduit (mm)	25.4	
BAT input conduit (mm)	35.4	
Operating temperature range (°F)	-13~+140	
Relative humidity	0-95%	
Operating altitude	0~4,000m(Derating above 2,000m altitude)	
Ingress protection	IP65/NEMA 3R	
Built-in breaker	Optional	
Weight (lb)	105 lbs (110lbs with breaker)	
Dimensions W*H*D (inch)	17.7 x 32.3 x 9.4	
Cooling	Fan cooling	
Noise emission (dB)	38	
Display	LCD,Touch panel(optional)	
Communication with BMS/Meter/EMS	RS485, CAN	
Supported communication interface	RS485, WLAN, 4G (optional)	
Self-consumption	<25W	
Safety	UL1741SA all options, UL1699B, CSA 22.2	
EMC	FCC part 15 class B	
Support diesel generator	Yes	
Grid connection standards	IEEE 1547, IEEE 2030.5, Hawaii rule 14H, Rule 21 phase I,II,III	
Peak power off (Off grid)	105%, 60s / 110%, 30s / 120%, 10s / 150%, 20m	

Dimensions

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Protection		
Grounding detection	Yes	Yes
Arc fault protection	Yes	Yes
Island protection	Yes	Yes
Battery reverse polarity	Yes	Yes
Insulation resistor detection	Yes	Yes
Residual current monitoring unit	Yes	Yes
Output over current protection	Yes	Yes
Back-up output short protection	Yes	Yes
Output over voltage protection	Yes	Yes
Output under voltage protection	Yes	Yes

